

(19) World Intellectual Property
Organization
International Bureau



11 FEB 2005

(43) International Publication Date
11 March 2004 (11.03.2004)

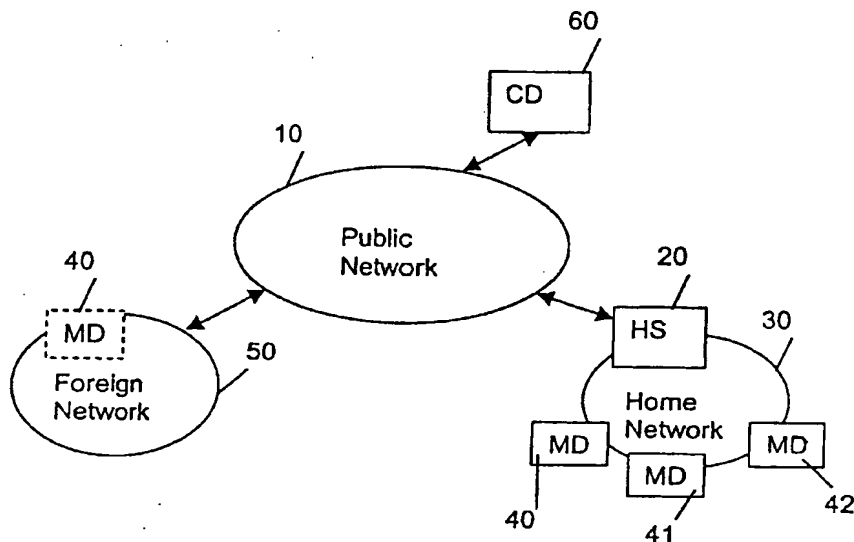
PCT

(10) International Publication Number
WO 2004/021719 A1

- (51) International Patent Classification⁷: **H04Q 7/20**, 7/22, 7/38, H04L 29/06
- (21) International Application Number: PCT/SG2002/000185
- (22) International Filing Date: 14 August 2002 (14.08.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): **LABORATORIES FOR INFORMATION TECHNOLOGY** [SG/SG]; 21 Heng Mui Keng Terrace, Singapore 119613 (SG).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BAO, Feng** [CN/SG]; 37 West Coast Park, 04-06, Parkview Condo, Singapore 127653 (SG). **ZHOU, Jianying** [CN/SG]; Blk 516 Jurong West Street 52#11-55, Singapore 640516 (SG). **DENG, Huijie** [SG/SG]; 2 Namly Rise, Singapore 267110 (SG).
- (74) Agent: **GREENE-KELLY, James, Patrick**; Lloyd Wise, Tanjong Pagar, P.O. Box 636, Singapore 910816 (SG).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:**
— of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: A METHOD OF GENERATING AN AUTHENTICATION



(57) **Abstract:** A method of generating an authentication for updating a mobile communications device's 40 location to a second communications device 60 is disclosed herein. The mobile communications device 40 is registered to a home network 30 comprising a proxy server but roams to a foreign network 40 with a different network number. The method proposes that, at the time of performing the location update, the second communications device and the proxy server each provides an input to a hash function to generate a shared secret; and using the shared secret as the authentication when the proxy server or the mobile communications device transmits the location update to the second communications device.

BEST AVAILABLE COPY